



August, 1982

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A DREAM TO FOLLOW

by Janet May

"Since the challenge last Spring, I have had this dream that I could help a child be independent in learning and communication."

Florence Wertz in her capacity as a speech and language pathologist designs Blissymbol programs to meet the needs of her non-verbal students. In her office at the Dowling School for Handicapped, in Minneapolis, MN, U.S.A., she meets with teachers, parents, aides and students. Experience has taught her that traditional procedures for drilling Blissymbols are tedious and costly of therapist and aide time. If a way could be found to decrease the tedium and enhance the learning rate, these problems would be minimized.

At a series of lectures given by Dr. Howard Shane in 1981, Florence was encouraged to believe that it was indeed possible, within the realm of new technology, to design a program that could lead to semi-independent study and communication for her students.

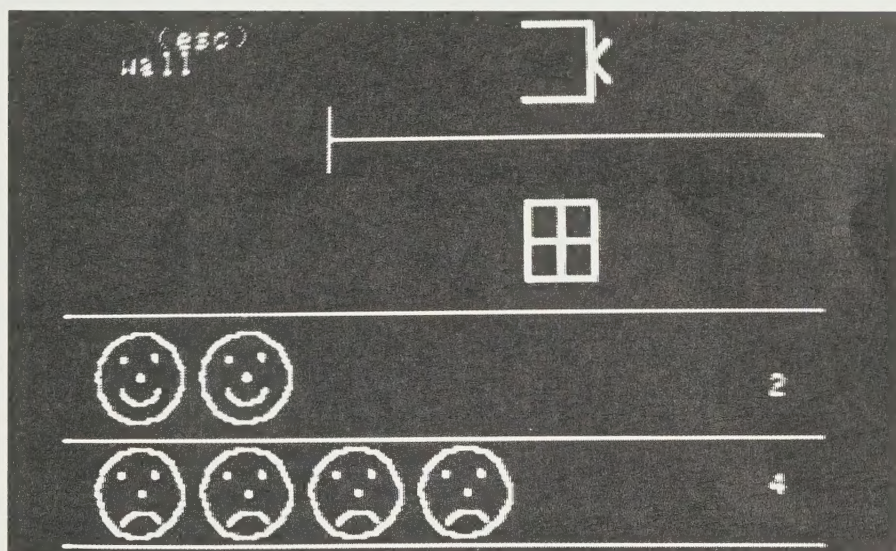
As with all creative processes, moving from an idea to a final concrete objective is an exciting but exacting task. Florence was called upon to use untapped potential, meet challenges, surmount obstacles and assume many roles. Florence proceeded to use her sabbatical time to implement "her dream".

A week in Boston with Dr. Shane at the Children's Hospital Medical Center and discussions with Bell Laboratory personnel helped her narrow the focus and concentrate on the first step.

"Inspiration"

Inspired by the work of Greg Vanderheiden and David Kelso of the Trace Centre in Wisconsin who developed the Blissapple disk, Florence planned to use this to develop her own program. Unfortunately, the very efficient programming language Forth which they used did not give easy access to the symbols for purposes other than communication. Florence decided to pursue her objectives in a different way.

In the fall of 1981, staff became accustomed to seeing a trailer in the parking lot of the Ontario Crippled Children's Centre and to hear voices in animated conversation coming from



Apple Monitor showing Symbols and Happy/Sad faces from Symbol Drill program.

inside. It was here that Florence set up house for five weeks in order to complete the BCI Internship program.

"Pixels are not Pixles"

Supported and encouraged by BCI experience, Florence began her work. As a first step, the symbols from **Blissymbols for Use** had to be drawn on graph paper.

It would be understandable if, at times, Florence wondered if the mischievous imps of mythology, (pixles) had invaded her world as she painstakingly transposed each symbol one screen point (pixel) at a time. As Florence describes this period: —

"Without the support and help of my husband and Kent Kehrberg from the Minnesota Educational Computer Consortium, the level of frustration would have been unbearable." The final results of all this work are contained on two disks (the Blissmaster and the Blissboard Catalogers). Names such as Blissmaster Talk, Blissboard Talk, Drill Maker, Single Symbol Drill, describe programs that can now be used to generate new student assignments and assemble symbols.

"Learning is Enhanced"

Using the disks has been an exciting and rewarding experience for Florence. In her role as therapist, she is often asked by the teachers in the setting she is in, to assist children with multi-handicaps. The child

who has perceptual difficulties as well as speech impairment may require help in discriminating between symbols e.g., *teacher* and *school*, that are similar in configuration. This is arranged with the special needs of the student in mind and a drill procedure is worked on.

Because of the need for number discrimination to be well established before the child can go on to Blissboard Talk, number drills can be devised between often confused 3 and 8 or 3 and 5, or 6 and 9. The number coding that is used in many computer programs, requires fewer movements, thus allowing the physically handicapped child easy access to symbols and words.

When smiling faces appear on the screen, the child knows that the sequence has been matched correctly. A frowning face indicates that the sequence must be done again. When Florence is asked about the effect this reward system has upon the student, she quickly points out that children seldom personalize these characters, as they might in person to person interaction. The dedicated computer becomes the authority in terms of correct or incorrect answers and the teacher is freed to interact at a different

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FROM THE SYMBOL OFFICE

TWO NEW SPECIAL SYMBOLS THREE SYMBOLS REVISED

Two new special or strategy symbols have been devised to facilitate communication:

I. looks similar to, similar looking

 (similar + to see + action indicator)

Use with another symbol to create a new meaning based on similarity in appearance.

e.g.: If one were telling a scary story about a cave,

looks similar to  plus  could mean bat.

The symbol was proposed by instructors in Sweden.

II. same sound

 (same, equal + sound)

Use to represent a homonym of the word accompanying an associated symbol.

e.g.: At a picnic lunch,

same sound  plus  could mean pear.

The *Blissymbols for Use* vocabulary contains the special symbol:

similar sound

 (similar + sound)

It can be used to express an intended meaning which rhymes with, or resembles part of the sound of the word accompanying the associated symbol.

e.g.: In a pottery class,

similar sound  (to) play  could mean clay.

Symbol expressions created with the special symbols *similar sound* or *same sound* are language specific. They cannot be used for communication between users with different native languages.

Symbol expressions created by using *looks similar to* would be comprehensible in any language.

Note that with each of these special symbols the context in which it is used makes an important contribution to the interpretation of the meaning of the new symbol expression.

© Indicates a new BCI symbol authorized in the absence of requested comment from C. K. Bliss.

The international use of Blissymbols has necessitated the revision of the symbols for *doctor* and *nurse*. In some languages the modifying abbreviation *dr* has no meaning.

present symbol

doctor 

new symbol

doctor  (person + medical)

nurse 

nurse  (person + to protect, care for + medical: a person who gives medical care)

The symbol for alcoholic drink has also been revised by eliminating the chemical symbols OH, which are considered to be meaningless to many users.

ON THE TECHNICAL SIDE

Good News for BLISSCII

BLISSCII's initial development was given strong support by Frederick Moell and Ulla Lagerman working through the Royal Institute of Technology in Stockholm. They hope to include the BLISSCII standard coding of Blissymbols in the multi-language portable text-to-speech system being developed in Sweden. Now, a second application of BLISSCII is under study in the U.K. Andrew Brown of the Rehabilitation Engineering Unit, Chailey Heritage, Sussex has requested the BLISSCII code and is considering modifying the Chailey Heritage Bliss Printer program to accommodate BLISSCII.

U.K. Blissymbol Printer

The Chailey Heritage Printer is a standalone, battery powered, portable unit capable of producing high-definition Blissymbols in strip-chart form by means of a dot-matrix printing head.

It has been designed to interface directly with a variety of commonly encountered Blissymbol selection devices. These include the Chailey 100 and 160 symbol scanning communication boards, the Chailey moving screen communicator, and the Chailey 400 symbol direct selection keyboard. The first three of the devices mentioned above use a parallel interface with hand-shaking to the printer, while the direct selection device is integrated by the printer electronics directly, using the convention adopted in the SPI-INK (Speech-Link), a communication device marketed in the U.K. A conventional serial RS232 communication port has also been incorporated, so that symbols can be printed in response to codes sent by some other device, such as a microcomputer based communication aid with RS232 output capability.

News from Training

Schedule Update

Toronto, Ontario will be the site of several types of training sessions in 1982.

Elementary Workshop: August 17-20; November 22-24. Contact: Workshop Coordinator, BCI (416) 425-7835.

Internship program: November 8 — December 10, 1982. A five week program directed to professionals who are responsible for developing and supporting Blissymbol programs in their country or region. Contact: Director of Training, BCI, (416) 425-7835.

Affiliates' Training Plans

Philadelphia, Pennsylvania: Correspondence course — September 2 will be the start of correspondence lessons, to be followed by on-site workshop sessions December 3-4. Contact: Dr. Eugene McDonald, Blissymbols Approved Training Center, Home of the Merciful Saviour for Crippled Children, 4400 Baltimore Avenue, Philadelphia, Pennsylvania, 19104, (215) 222-2566.

St. John's, Newfoundland: Elementary Workshop — September 29-30 and October 1 (tentative). Contact: Jane Green, 75 Circular Road, St. John's, Newfoundland, A1A 2Z4, (709) 726-8773.

Orlando, Florida: Elementary Workshop — October 21-23. Contact: Sandra Osborn, Forrest Park School, 1600 Silver Star Road, Orlando, Florida, 32804, (305) 293-5841.

Senior Presentors Achievement

It is a pleasure to recognize four Associate Presentors who have now completed the required work to become Senior Presentors:

Els Koerselman, Huizen, The Netherlands
Sandra Osborn, Orlando, Florida, U.S.A.
Marie Julien, Montreal, Quebec, Canada
Annick Roustan, Hull, Quebec, Canada.
Congratulations!

Toronto Non-Speech Conference November 15-17, 1982

EARLY REGISTRATION IS ADVISABLE

Anticipating a large attendance, the planners will close registration when 1000 is reached. The planners have kept the registration fee at an absolute minimum to allow for the fullest participation. The exchange rates to USA registrants is particularly attractive just now:

3 day fee is: \$90.00 (CDN) before September 15.
\$100.00 (CDN) after September 15.
2 day fee is: \$75.00 (CDN).

You can support the work of the conference planners by passing on this information to interested friends and associates. If you have not received the Preliminary Conference Program: Contact: Ontario Institute for Studies in Education, Conference Office, 252 Bloor Street West, Toronto, Ontario M5S 1V6.
The Toronto Non-Speech Conference includes fifty speakers of varied backgrounds and disciplines. The Blissymbols Communication Institute is pleased to be associated with the Ontario Institute for Studies in Education (OISE), Ontario Speech and Hearing Association (OSHA), and the Ontario Crippled Children's Centre (OCCC), in this co-operative effort.

New Training Program

As well as keeping ongoing programs moving, the Training Department staff focuses on developing new training formats. Thanks to the interest and financial support of the **Kiwans Club** of Toronto, the development of a self-study program and work on a revised form of the *Handbook* are underway.

To those who cannot attend Elementary Training Workshops, and yet have expressed an interest in Blissymbols and its application, the *Self-Study Kit* will provide a new learning opportunity.

The work to date has been mainly concerned with new chapters for the BCI Handbook and compilation of a workbook. It is anticipated that the work will be completed and the material available early in 1983. Watch for more details about this in COMMUNICATING TOGETHER in November.

FROM OUR SUPPORTERS

The Blissymbols Communication Institute is pleased to give recognition to three grants supportive of the application of microcomputer technology with the disabled:

By Zonta Club of Toronto 1: A grant to the Augmentative Communication Service of the Ontario Crippled Children's Centre, for the development of computer software to be used to teach Blissymbol vocabulary.

By the Max Bell Foundation: A grant to the Augmentative Communication Service and Rehabilitation Engineering of the Ontario Crippled Children's Centre, to extend over three years, for a project entitled "Towards the Establishment of a Concerted Multidisciplinary Programme of Application of Modern Computer Systems and Technology to Aid Physically Disabled Persons".

By the Ontario Ministry of Education: To the Blissymbols Communication Institute and the Augmentative Communication Service, a grant for the development of educational software to facilitate the transition from Blissymbols to the reading of traditional orthography.

We look forward to the new materials and the exciting learning which will result from these projects.

The Market Place

New Book Now Available

Introducing Blissymbolics —

A Guide for Parents and Friends of Symbol Users



"Introducing Blissymbolics" is a helpful guide for parents and friends of symbol users who are interested in helping the Blissymbol user communicate. The book's chapters cover topics such as: Blissymbolics; Blissymbol users; vocabulary displays; special equipment. The author draws on her many years of Blissymbol experience at the Credit Valley Treatment Centre, to provide a practical approach to helping Blissymbol users with their symbol learning. The brief exercise following each chapter provides a useful review. The publication is available in August, 1982. Cost: \$8.00.

Display Folder From BCI

Convenient, durable, 6" x 9" vinyl folder with a rigid cover capable of holding over three hundred 7/8" stamps. The inside front and back covers have clear vinyl pockets. Two vinyl sleeves are stitched to the centre making a small but versatile display board. Cost: \$9.00 Cdn. plus shipping. Available from BCI.

From Victoria, B.C.

Portable Displays: Non-glare, soft plastic covers are now available:

9 pocket soft cover 12" x 18" folds to 4" x 6" \$4.00 Cdn.
Plain Velcrofastener & metal clips 5.00
2 pocket 12" x 18" 4.00
1, 2 & 4 pockets 18" x 24" 5.00
Alphabetical Dictionary of Blissymbols 4.00
T-shirt (transfers — 100 symbol display) 2.00

These can be ordered through:
Greater Victoria Society for Alternative Communication,
#420-620 View Street,
Victoria, B.C. Canada
V8W 1J6

Still Available

Blissymbol T-Shirts: "PEOPLE HELPING PEOPLE". Excellent quality T-shirts available in adult sizes small, medium and large. Light blue in colour with dark blue lettering. Cost: \$7.50 (including tax). (See Bulletin, Vol. 7, #2 for a picture)

10th Anniversary Cloth Displays: A very versatile and attractive symbol display which can be used as an apron, place mat, display board as well as other uses. Printed in black on white cotton, the display can be coloured by hand with permanent fabric paint. The display is fully washable. Cost: \$4.00 (including tax).

BLISSAPPLE Disk

The March issue of the BULLETIN included a description of the BLISSAPPLE disk developed by the Trace Centre, Madison, Wisconsin and an announcement that BCI was to be a distributor of the disks in Canada.

The disk can be ordered now. In Canada: Blissymbols Communication Institute
350 Rumsey Road,
Toronto, Ontario M4G 1R8
Cost: \$45.00 Cdn.

In U.S.A.:

Trace Center,
314 Waisman Center,
1500 Highland Avenue,
Madison, WI. 53706
U.S.A.
Cost: \$35.00 U.S.

Canadian Price Changes for BCI Aids/Materials

TEACHING AND USING BLISSYMBOLICS (Eugene McDonald) \$17.00 Canadian.

9/16" STAMP BOOKLET (Black & White, and Coloured) \$12.00 Canadian.

For information regarding prices for BCI materials in the U.S., contact:

Mr. Doug Allison,
EBSCO Curriculum Materials,
Division of EBSCO Industries,
P.O. Box 1943,
Birmingham, AL 35201
U.S.A.

PROCEEDINGS

Blissymbolics: Current Application with the Multi-Handicapped and Mentally Retarded

A report of General Proceedings and Course Content of the special interest workshop held October 20-22, 1981 at Ontario Institute for Studies in Education.

Available in U.S.A. from Suffolk Association for Help of Retarded Children, Attention: Sue Sansone, 2900 Veteran's Memorial Highway, Bohemia, N.Y. 11716, U.S.A. (Cost: \$3.50 U.S., shipping included).

Available in Canada from the Blissymbols Communication Institute, 350 Rumsey Road, Toronto, Ontario, M4G 1R8. (Cost: \$4.50, shipping included).

Computers and the Handicapped Tutorial Ottawa, June 21, 22, 1982.

Proceedings are available now. Included are papers, illustrations, reference lists and names and addresses of participants and speakers. Distribution of the Proceedings from the Workshop which followed is planned for early 1983. NRC Publication No. 1944 — \$25.00.

National Research Council Publications,
Sales and Distribution
Ottawa, Ontario
K1A 0R8

Payment must accompany order.

TIMELY CONFERENCE COMPUTERS AND THE HANDICAPPED

From June 21-24, 1982 in Ottawa, Computers and the Handicapped was the focus for two well-organized conferences, sponsored by the Biomedical Engineering Research Program of the National Research Council of Canada and hosted (part-time) at the Ottawa Crippled Children's Treatment Centre. The first conference took the form of a Tutorial with lectures and "hands-on" sessions; it was directed toward those who were new to personal computers. The second conference entitled a workshop was planned to be of interest to those already involved in the application of computers and the handicapped and brought experienced people together to share their findings and concerns and to facilitate mutual support and information exchange in the future. NRC is to be congratulated on two very timely and relevant conferences. Excellent overviews from different vantage points were given by Peter Watts, UMIST, Manchester, U.K., Gregg Vanderheiden, Trace Centre, Madison, U.S.A., Penny Parnes, Augmentative Communication Service, Toronto, Larry Forba, NRC Ottawa and Peter Graystone, U.B.C., Vancouver.

Throughout the four days, the different applications of computers in several settings were described: *the educational uses of computers* with the disabled at the Ottawa Crippled Children's Treatment Centre, in a special education classroom in Surrey, B.C. and in Lord Roberts School, Winnipeg; *the vocational uses* at the Blissymbolics Communication Institute, in the Neath Hill Professional Workshop, Electronic Office, Bucks, U.K., and in several settings in Michigan; *the home and personal uses of computers* through Telidon and networking.

Specific software programs were described: NRC "Screen Writer"; The Handicapped Typewriter; Blissapple; NRC Turtle Graphics and Morse Code as a computer input method.

The technical areas receiving special attention at both conferences were accessibility and standards. The importance of independently and effectively controlling the computer and of having access to the full range of commercial software and courseware was stressed many times and several speakers focussed upon the need for standards with regard to both the interconnection format and software.

The importance of the human considerations as Computer technology is utilized, was stressed by Shirley McNaughton, Peter Deakin, Clendon Wooldridge, and John and Pat Israel — bringing an important balance to the program. As well, the sponsoring of four disabled persons by the Canadian Medical and Biological Engineering Society (CMBES), to attend the conferences, did much to expand the awareness of the social-technological perspective needed.

Throughout the four days there was an underlying recognition of the role of Blissymbols as a viable alternative to traditional orthography for those not fluent in reading and spelling. In schools, in the work setting and in software development, the use of Blissymbols was frequently referred to.

The Blissapple, developed by Dave Kelso and Gregg Vanderheiden at the Trace Centre was highly praised for its Blissymbol capabilities and for the many ways of accessing which it can accommodate.

The themes of the two conferences "Who is doing what?" and "Where do we go from here?" were most ably dealt with. That the proceedings from both Conferences are being distributed by the National Research Council is an added "plus".

(Ed. Note: See Market Place re ordering **Blissapple Disk**; and **Computers and the Handicapped Proceedings**).

A DREAM TO FOLLOW

Continued from page 1

and more rewarding level with the student. When a child is sufficiently proficient in number discrimination, it is possible for students to communicate with each other, with the therapist or even generate a printed message such as a letter.

Florence's dream stretches far beyond spoken English words for symbol users. She has developed sample pages in several different languages to demonstrate the versatility of the programs. The necessary special indicators and characters that some languages require are included. She hopes this will stimulate the generation of sets of accepted words for all languages which use Roman characters.

"Speak their Minds"

The cost of educating a child from birth through university is a formidable challenge. For the non-verbal child and adult,

it is even costlier. Florence is advocating that non-speaking children and adults have access to computers in the same way we provide a pen or other tool to all children in the educational process. She feels that these tools are essential if a child is to go on to independent study and fully realize intellectual maturity. As a person who has spent a great deal of her professional career in helping children to *speak their minds* through Blissymbols and other means, this dedicated woman knows of what she speaks.

When Florence arrived at Halton Hills Conference this Spring, she came as a new Affiliate. In the final comments she expressed herself as: "thrilled to be involved", and "Nothing takes the place of personal interaction."

As she completes her first exciting computer project, we can be assured that new dreams are in the making.

HELPFUL HINTS

In evaluating the Blissapple Diskette, ACS has found accessing the symbols is facilitated if:

—the client's **personalized display** for the Apple is transcribed onto a single display and mounted beside or in front of the user.

To do this, use 9/16" stamps and leave enough space for a code number to be printed under each symbol. The smaller stamps can be used since the non-symbol listeners will not be using this display to read the words over the symbols.

In assigning a number to the various categories, it is useful to allocate a particular number series to each category such as numbers beginning with 100 for the people series and numbers beginning with 200 for action symbols, etc.

The low, 2-digit numbers should be reserved for most frequently used symbols. This is especially important if an individual must use the program in the automatic scanning mode rather than the keyboard. In the scanning mode, a number line is presented on the bottom line of the screen and the cursor moves over the numbers from "0" on the left to "9" on the right end. Here the symbols with lower numbers are more quickly reached by the user, and 2 digits instead of 3 of course, saves time.

As clients and instructors gain more experience in using the new technology, we expect that many creative ideas will emerge. We appreciate hearing from you.

Contact:

Nora Rothschild,
Augmentative Communication
Service,
Ontario Crippled Children's Centre,
350 Rumsey Road,
Toronto, Ontario.
M4G 1R8

COMMUNICATING TOGETHER

NEW VENTURE ANNOUNCED BY BCI

The Inaugural issue of COMMUNICATING TOGETHER will be sent to all subscribers in November, in place of the Fall mailing of the Bulletin, Newsletter and Symbol User's Newspaper.

This 24-page quarterly, replacing the present publications, is directed toward a wide readership. As well as reporting on the Clinical scene, both in North America and Internationally, COMMUNICATING TOGETHER will highlight the families of symbol users, and the works of community organizations that are supporting them. COMMUNICATING TOGETHER will keep readers updated in areas related

to Augmentative Communication, with reports on research, literature, new technology and people involved in the communication field.

In the Fall you will receive your re-subscription application. You can continue your support of BCI and be part of our new venture by subscribing to COMMUNICATING TOGETHER for 1983. The rate will be \$20.00 Canadian, \$15.00 U.S. funds.

We urge current subscribers to join with us in this new undertaking and to tell those in the non-speaking persons' world about BCI's new publication. Help us take non-speech systems to homes, schools, libraries, and all parts of the community through COMMUNICATING TOGETHER.

BCI DIRECTORY — Our Apologies

All subscribers should have received, with the last BULLETIN, the BCI Directory. This was compiled of those who indicated on the subscription form that they wanted to be included. We realized, after the fact, that several of our very early renewals last fall were inadvertently left off the final list. Many of these are people with a long time association with us, and we apologize for this oversight. As well, we neglected to give a special marking to those who are our valued Affiliates. In order to correct this oversight, a supplement to the Directory and a list of 1982 Affiliates is included in this mailing. Please add this to your Directory, and make it a more complete reference.

NEWSBRIEF

The Third Annual Southeast Nonspeech Communication Conference will be held October 1 and 2, 1982, in Birmingham, Alabama. The conference, sponsored by Alabama Mental Health/Mental Retardation Division and the Center for Developmental and Learning Disorders, University of Alabama in Birmingham, will feature guest speaker Dr. David E. Yoder of the University of Wisconsin, presenting information on "Developing Communication Behavior for Severely Handicapped Persons" and "Improving Conversational Interactions with Persons Using Augmentative Systems".

For further information contact:
Division of Continuing Medical Education,
127 Community Health Services Building,
University Station,
Birmingham, Alabama 35294
or call (205) 934-2687

FROM THE EDITOR

Separating from what has become familiar and appreciated is always difficult. In the short time (4 issues) that I have been involved, it has been exciting to piece together the material from each of the areas that make up the Bulletin. I will miss that involvement. I will miss the learning and give and take with Ann Kennedy and Shirley McNaughton as we struggled to understand our roles and communicate with our readers and each other.

It has been evident for some time that a way had to be found to combine into one publication the present Bulletin, Newsletter and Symbol User's Newspaper and encourage a wider readership in order to meet BCI's commitment to non-speaking people. We are ever aware of the need to be informed of and sensitive to the persons who could benefit from augmentative communication.

Those readers who speak or whose augmentative communication needs have been met, can join with me in recalling with affection and gratitude the many individuals who helped us develop and mature. For the non-speaking person learn-

ing to communicate, it is even more essential that opportunities for that kind of nurturing and nourishing be provided. The help of many people is needed for them to be freed to communicate and grow. As COMMUNICATING TOGETHER reaches out to all parts of the community, I look forward to my role as Contributing Editor of the Community and International sections. Working along with other editors in this larger and broader publication presents exciting new challenges.

At this time, the preliminary planning is completed and work is already underway for the Inaugural Issue of COMMUNICATING TOGETHER to be published in November. As the magazine takes form. I see it further reinforcing our communication as a continuous, interactive learning process. I know it will provide a vehicle to reach all those whom we need to "close the loop".

We will surely learn from each other as we continue COMMUNICATING TOGETHER.

CLOSING THE LOOP

From England

A novel way was found to support the work of the Blissymbolics Communication Resource Centre (U.K.) by the spouses of Ena, National advisor to the Resource Centre, and Jill, Senior Presenter of the Resource Centre and consultant. *John Davies* and *Dennis Jenkinson* solicited pledges, intensified their training and then ran in the *London Marathon*. By completing the run, they were able to raise a substantial sum of monies to be used to further the work of the Resource Centre (U.K.) Our congratulations!

From Israel

Judy Seligman-Wine reports a successful *first* Blissymbol Update in Jerusalem with 28 parents, teachers and therapists. She describes the presentation of material from the group as superb! In one session, a music therapist described his method of incorporating Blissymbols into music therapy and then led the group in songs he had prepared using Blissymbols. Plans are underway for an Israeli Blissymbolics Newsletter. We look forward to sharing excerpts from the Newsletter in COMMUNICATING TOGETHER and acquainting English-speaking symbol users with the Hebrew format.



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The Bulletin is a publication for the staff and subscribers of the Blissymbolics Communication Institute.

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